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FILE LAST UPDATED: 14 Apr 2006  (20060414/ED)

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L4      STRUCTURE UPLOADED

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L4 HAS NO ANSWERS
L4              STR
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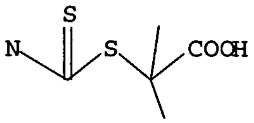

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Structure attributes must be viewed using STN Express query preparation.


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   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.




FULL SEARCH INITIATED 16:34:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      26 TO ITERATE

100.0% PROCESSED       26 ITERATIONS                              10 ANSWERS
SEARCH TIME: 00.00.01

L5            10 SEA SSS FUL L4



L6           20 L5

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      19944472 PY<2000
L7           10 L6 AND PY<2000

=> d 1-10 ibib abs hitstr

L7   ANSWER 1 OF 10  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         1968:434892  CAPLUS
DOCUMENT NUMBER:          69:34892
TITLE:                    Advancements in plant pharmacology of dithiocarbamates
AUTHOR(S):                Ueyama, Akinori
CORPORATE SOURCE:         Kyoto Univ., Kyoto, Japan
SOURCE:                   Bochu Kagaku (1967), 32(1), 11-19
                          From: CZ 1968, (17), Abstr. No. 1504
                          CODEN: BOCKAF; ISSN: 0006-5420
DOCUMENT TYPE:            Journal
LANGUAGE:                 Japanese
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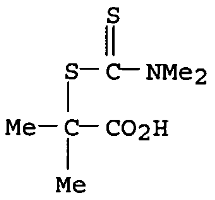
AB Nineteen carbamate derivs. were tested with regard to their auxin activity, antiauxin activity, and chemotherapeutic activity in plants. The following N,N-dimethyl-dithiocarbamates were tested (auxin activity, antiauxin activity, anti-Cladosporium cucumerinum activity given): S-carboxymethyl +, -, +; S-(1-carboxyethyl) +, -, -; S-(1-methyl-1-carboxyethyl) -, +, +; S-(ethoxycarbenthoxymethyl) -, +, +; S-(carbethoxymethyl) +, -, +; S-(1-methyl-1-carbethoxyethyl) -, +, +; S-(carbethoxymethyl) +, -, +; S-(1-methyl-1-carbamoylethyl) -, +, +; S-(N-methylcarbamoylmethyl) -, +, +; S,S-bis(N,N-dimethylthiocarbamoyl)dimercaptoacetic acid -, +, +; O-carboxymethyl N,N-dimethylthiocarbamate +, -, -; S-(carboxymethyl) N,N-diethyldithiocarbamate -, -, -; S-(carboxymethyl N,N-dibutyldithiocarbamate -, -, -; S-(carboxymethyl)dithiocarboxylic acid Δ2-pyrrolinide -, +, ±; S-(1-methyl-1-carboxyethyl)dithiocarboxylic acid Δ3-pyrrolinide -, +, -; Na dithiocarboxylic acid pyrrolidide -, +, +; S-(carboxymethyl)dithiocarboxylic acid pyrrolidide -, +, +; S-(carboxymethyl)dithiocarboxylic acid piperidide -, +, +.

IT **20940-21-0**
RL: BIOL (Biological study)
(auxin and antiauxin and fungicidal activity of)
RN 20940-21-0 CAPLUS
CN Propanoic acid, 2-[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)

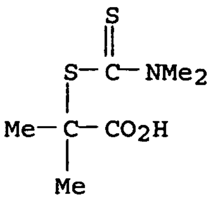


L7 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	1964:421169 CAPLUS
DOCUMENT NUMBER:	61:21169
ORIGINAL REFERENCE NO.:	61:3627h,3628b
TITLE:	Growth-regulating effects of amino acids and dithiocarbamic acid derivatives and their possible relation with chemotherapeutic activity
AUTHOR(S):	van Andel, O. M.
CORPORATE SOURCE:	Lab. Phytopathol., Wageningen, Neth.
SOURCE:	Phytopathologische Zeitschrift (**1962**), 45(1), 66-80 From: CZ 1963(7), 2514. CODEN: PHYZA3; ISSN: 0031-9481
DOCUMENT TYPE:	Journal
LANGUAGE:	English

AB Dithiocarbamic acid derivs. were tested for their auxin activities (epinasty test, 1st sign), anti-auxin activities (cucumber root growth test, 2nd sign), and chemotherapeutic activity (against Cladosporium cucumerium in cucumbers, 3rd sign). The dithiocarbamic acid derivs. contain both auxins and anti-auxins. Their action depends on substitution of H atoms at α-C- atoms and those of N-Me groups. On the other hand, amino acids promote growth during the 1st 24 h.

IT **20940-21-0**, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate, (-)-
(plant regulator activity of)
RN 20940-21-0 CAPLUS
CN Propanoic acid, 2-[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



L7 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1962:444790 CAPLUS
DOCUMENT NUMBER: 57:44790
ORIGINAL REFERENCE NO.: 57:8966a-b
TITLE: Fungicidal compounds
INVENTOR(S): van der Kerk, Gerrit J. M.
PATENT ASSIGNEE(S): N. V. Philips' Gloeilampenfabrieken
SOURCE: 4 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 96797		19610116	NL	19550330 <--

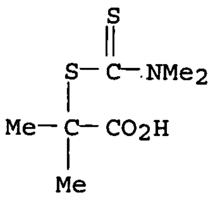
PRIORITY APPLN. INFO.: NL 19550330

AB Fungicidal compds. with systemic activity are the dithiocarbamates of the formula R1R2NC(S)YR3C(O)X or the formula R4 [NR2C(S)YR3C(O)X]2, in which R1 and R2 are H or alkyl, or may form a 5- or 6-membered ring with N; R3 is alkylene, aralkylene or arylene; R4 = R3, or may form a ring with the NR2 groups; X is NH2, OH, ONa, or O-alkyl, O-aryl or O-aralkyl; and Y is O or S. Examples are S-1-carboxypropyl N,N-dimethyldithiocarbamate, the corresponding carboxymethyl, or 1-carboxyethyl derivs. The active compds. are applied prophylactically or on infected plants in the form of mixts. with solid or fluid carriers in usual dilns.

IT **20940-21-0**, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
(fungicide)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1962:55547 CAPLUS
DOCUMENT NUMBER: 56:55547
ORIGINAL REFERENCE NO.: 56:10620c-e
TITLE: Plant growth-regulating activity of S-carlsoxymethyl N, N-dimethyldithiocarbamate and related compounds
AUTHOR(S): Pluijgers, C. W.; van der Kerk, G. J. M.
CORPORATE SOURCE: Inst. Org. Chem. T.N.O., Utrecht, Neth.

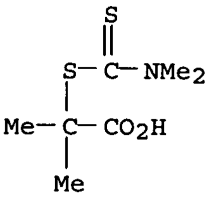
SOURCE: Recueil des Travaux Chimiques des Pays-Bas (**1961**), 80, 1089-1100
CODEN: RTCPA3; ISSN: 0165-0513
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The growth-regulating activity of Scarboxymethyl N,N-dimethyldithiocarbamate (I) and 29 structurally related compds. on tomato was determined The relation between structure and activity is discussed. Activity was associated with the electronic configuration of the mol., with a distinct degree of double bond character of the N-C bond. In addition, however, steric factors seemed to be of decisive significance for the presence or absence of growth-regulating activity. Methods for the synthesis of I and the related compds. are also given.

IT **20940-21-0**, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
(preparation and plant regulating activity of)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



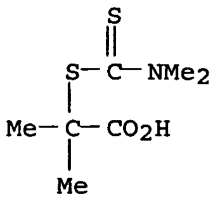
L7 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1956:71219 CAPLUS
DOCUMENT NUMBER: 50:71219
ORIGINAL REFERENCE NO.: 50:13354c-f
TITLE: New views and new results in the field of crop protection
AUTHOR(S): Oort, A. J. P.
CORPORATE SOURCE: Fac. agron., Wageningen, Neth.
SOURCE: Phytiatrie-Phytopharmacie (**1955**) 105-14
CODEN: PHPHA6; ISSN: 0031-8876
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Influence of modern technical equipment on plant-disease occurrence and control is discussed. Artificial air-cooled storage chambers are now used in the Netherlands for improved storage of potatoes, while artificial hot-air drying preserves onions from fungus after harvesting. Oppositely, cold storage has increased disease incidence in apples. Preliminary findings with systemic fungicides are reported. S-carboxymethyl-N,N-dithiocarbamate in 10 p.p.m. concentration checked cucumber scab, while 250 p.p.m. concentration was phytotoxic; the compound also showed growth-promoting activity. S-(1-Carboxy-1-methylethyl)-N,N-dimethyldithiocarbamate had about the same chemotherapeutic activity but no growth-promoting effect. Hence, it was concluded that diffusibility in the tissues was not related to growth promotion. Seed disinfection with solns. having systemic activity (rimocidine, etc.) was effective in ascochyta infection in peas, etc., but it was not practicable to soak seeds in liquid before sowing.

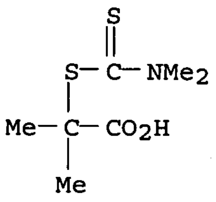
IT **20940-21-0**, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
(as plant-growth regulator)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



L7 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1956:1964 CAPLUS
DOCUMENT NUMBER: 50:1964
ORIGINAL REFERENCE NO.: 50:442g-h
TITLE: Seasonal changes of vitamin C contents of various plants
AUTHOR(S): Zemlyanukhin, A. A.
CORPORATE SOURCE: State Univ., Voronezh
SOURCE: Agrobiologiya (**1955**), (No. 2), 136-7
CODEN: AGRBAU; ISSN: 0365-2696
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Ascorbic acid was determined in the leaves and stems of beets, cabbages, and cucumbers. The ascorbic acid content was found to vary not only with the position on the plant and with its stage of growth, but also with environmental factors such as sunlight, temperature, moisture, and mineral content.
IT **20940-21-0**, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
(systemic fungicidal activity of)
RN 20940-21-0 CAPLUS
CN Propanoic acid, 2-[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)

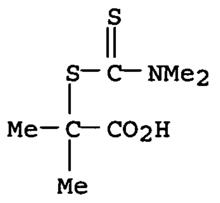


L7 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1956:1963 CAPLUS
DOCUMENT NUMBER: 50:1963
ORIGINAL REFERENCE NO.: 50:442f-g
TITLE: Investigations on plant chemotherapy
AUTHOR(S): van Raalte, M. H.; Sijpesteijn, A. Kaars; van der Kerk, G. J. M.; Oort, A. J. P.; Pluygers, C. W.
CORPORATE SOURCE: Lab. Phytopathol., Wageningen, Neth.
SOURCE: Mededel. Landbouwhogeschool Opzoekinsstas. Staat Gent (**1955**), 20, 543-55
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Theoretical considerations regarding structure and fungicidal effect led to the synthesis of compds. with the general formula Me2NC(:S)X, where X = alkyl or alkylthio. Some of these compds. applied to roots of cucumber plants render the tops less susceptible to infection with Cladosporium cucumerinum. This is especially the case with Me2NC(:S)SCH2CO2H. The same influence is found with the related Me2NC(:S)Pr.

IT **20940-21-0**, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
(systemic fungicidal activity of)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



L7 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN

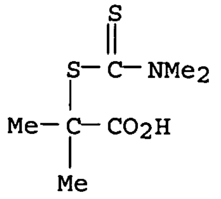
ACCESSION NUMBER: 1955:86468 CAPLUS
DOCUMENT NUMBER: 49:86468
ORIGINAL REFERENCE NO.: 49:16304g-i
TITLE: A new type of plant-growth-regulating substances
AUTHOR(S): van der Kerk, G. J. M.; van Raalte, M. H.; Sijpesteijn, A. Kaars; van der Veen, R.
CORPORATE SOURCE: Inst. Org. Chem. T. N. O., Utrecht, Neth.
SOURCE: Nature (London, United Kingdom) (**1955**), 176, 308-10
CODEN: NATUAS; ISSN: 0028-0836
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Carboxymethyl dimethyldithiocarbamate (I) produced growth responses similar to those brought about by synthetic growth substances when applied to tomato, pea, and cucumber plants. I was also active when applied to the soil of potted plants and initiated roots of tomato and Phaseolus. Several derivs. of I exhibited similar properties.

IT **20940-21-0**, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
(as plant-growth regulator)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1954:3420 CAPLUS
DOCUMENT NUMBER: 48:3420
ORIGINAL REFERENCE NO.: 48:597e-i,598a
TITLE: N-Disubstituted derivatives of dithiocarbamic acid
AUTHOR(S): Nachmias, Germaine
SOURCE: Ann. chim. (Paris) (**1952**), 7, 584-631
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

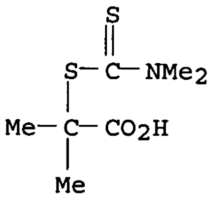
GI For diagram(s), see printed CA Issue.

AB Derivs. of AX, where X = S2CNMe2, S2CNC5H10, and S2CR (R = morpholino) were studied. The compds. with A = HOCH2CH2, MeCOCH2, and NCCH2 were prepared from the NaX with HOCH2CH2Cl, MeCOCH2Cl, and NCCH2Cl, resp. The HO2CCH2X, after esterification, gave the amides, hydrazides, and phenylhydrazides. The following AX are listed: A, X = S2CNMe2 M.p., S2CNC5H10 M.p., S2CR M.p.; HOCH2CH2, (b. 162°), 18, 47; PhNHCO2CH2CH2, 103, 92, 152; p-O2NC6H4CO2CH2CH2, 141, 91, 117; c-HO2CC6H4CO2CH2CH2, 109, 125, 128; HO2CCH2CH2CO2CH2CH2, 80, 56, 97; cis-HO2CCH:CHCO2CH2CH2, , , 100; MeCOCH2, 73, 62, 94; NH2N:CMeCH2, 127, 84, 98; 2,4-(O2N)2C6H4NHN:CMeCH2, 146, 135, 147; NH2CONHN:CMeCH2, 2171, 183, 186; NH2CSNHN:CMeCH2, 176, 175, 186; HON:CMeCH2, 101, 110, 102; NCCH2, 73, 74, 103; HCl.NH:C(OEt)CH2, 140, 190, 1391; NH:C(OEt)CH2, 58, 54, 79; HON:C(NH2)CH2, 162, 77, 156; p-O2NC6H4CO2N:C(NH2)CH2, 195, , ; HO2CCH2, , 143, 162; MeO2CCH2, 48, 59.5, 57; EtO2CCH2, 60, 68, 70; H2NCOCH2, 125, 143, 155; NH2NHCOCH2, 134, 141, 133; PhNHNHCOCH295, 185, 84; 1Decompn.; The following addnl. AS2CNMe2 are also listed (A and m.p. given): AcON:CMeCH2, 191°; BzON:CMeCH2, 167°; HON:C(NHCONHPh)CH2, 139°; HO2CCHMe, 135°; HO2CCMe2, 137°; PrO2CCH2, 44°; MeO2CCHMe, 38.5°; EtO2CCHMe, 59.5°; MeNHCOCH2, 115°; PhCH2NHCOCH2, 112°; H2NCOCHMe, 127°; MeNHCOCHMe, 95°; H2NCOCMe2, 69°; MeNHCOCMe2, 61°; (NHCOCH2), m. 278°; Me2C:NNHCOCH2, m. 159-60°; and PhCH2C(CO2H):NNHCOCH2, m. 63°.

IT **20940-21-0**, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
(preparation of)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



L7 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1952:24619 CAPLUS

DOCUMENT NUMBER: 46:24619

ORIGINAL REFERENCE NO.: 46:4175g-i

TITLE: Chemical structure and antibacterial action in vitro of a series of N-substituted dithiocarbamylic acid esters

AUTHOR(S): Quevauviller, A.; Chabrier, P.; Nachmias, G.; Maillard, G.

CORPORATE SOURCE: Faculte pharm., Paris

SOURCE: Annales Pharmaceutiques Francaises (**1951**), 9, 638-41
CODEN: APFRAD; ISSN: 0003-4509

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB In the general formula RR1NCSSR2 the N is substituted by Me2, O(C2H4)2, or (CH2)5, and R2 is C2H4OH, CH2COMe, CH2CN, CH2CO2H, CHMeCO2H, CMe2CO2H, C2H4NMe2, and C2H4NMe3X, X being halogen. The esters were tested with Staphylococcus pyogenes aureus, Escherichia coli, Bacillus mesentericus, and Pseudomonas aeruginosa. If the Na salts of the acids had strongly antiseptic qualities, the activity of the esters varied widely depending on the nature of R2. The activity increased in the sequence: morpholine, Me2NH, piperidine.

IT **20940-21-0**, Propionic acid, 2-mercapto-2-methyl-,
dimethyldithiocarbamate
(as bactericide)
RN 20940-21-0 CAPLUS
CN Propanoic acid, 2-[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)